

## SAFETY DATA SHEET

According to OSHA Hazard Communication Standard 29 CFR 1910.1200 (HAZCOM 2012 - GHS)  
According to Canada Hazardous Products Regulation (WHMIS 2015)

<b>Product name</b>	<b>HALOX® CW-291</b>	
<b>Product id</b>	3102	
<b>Revision date</b>	24/10/2018	<b>Revision: 2</b>
<b>Supersedes</b>	16/01/2018	

### 1. Identification of the substance & the company

<b>Product identifier</b>	HALOX® CW-291
<b>Type of product and use</b>	Pigment Corrosion inhibitor
<b>Supplier</b>	ICL 6530 Schneider Ave Tel.: +1-219-933-1560 Fax: +1-219-933-1570 Hammond IN 46322, USA e-mail: msdsinfo@icl-group.com
<b>Emergency Telephone</b>	CHEMTREC : (800) 424-9300 Outside the USA, including ships at sea, call CHEMTREC's international and maritime telephone number (collect calls accepted): +1 (703) 527-3887

### 2. Hazards identification

<b>GHS classification</b>	Product is not subject to classification according to GHS. No label elements required.
<b>Symbol(s)</b>	Not required.
<b>NFPA Ratings (Scale 0-4)</b>	Health = 1, Fire = 0, Reactivity = 0
<b>HMIS Ratings (Scale 0-4)</b>	Health = 1, Fire = 0, Reactivity = 0.

### 3. Composition / information on ingredients

Components	CAS No.	Weight %
Calcium Borate	13701-64-9	20-35

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### 4. First-aid measures

<b>Eye contact</b>	Holding the eyelids apart, flush eyes promptly with copious flowing water for at least 20 minutes. Get medical attention immediately.
<b>Skin contact</b>	Take off contaminated clothing. Wash skin thoroughly with mild soap and plenty of water for at least 15 minutes. Get medical attention if irritation occurs and persists.
<b>Inhalation</b>	In case of inhalation, remove person to fresh air. Keep him quiet and warm. Apply artificial respiration if necessary and get medical attention immediately.
<b>Ingestion</b>	If swallowed, wash mouth thoroughly with plenty of water. Get medical attention immediately.

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NOTE: Never give an unconscious person anything to drink  
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#### Most important symptoms and effects, acute or delayed

None known

<b>Notes to the physician</b>	Treat symptomatically and supportively.
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### 5. Fire - fighting measures

<b>Suitable extinguishing media</b>	Use extinguishing media appropriate to surrounding fire conditions.
<b>Extinguishing media not to be used</b>	None known.
<b>Unusual fire and explosion hazards</b>	Silica fumes. Calcium oxide. Oxides of boron.
<b>Fire fighting procedure</b>	In the event of fire, wear self-contained breathing apparatus. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

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### 6. Accidental release measures

<b>Personal precautions</b>	Avoid dust formation. Do not breathe dust. Avoid contact with eyes.
<b>Methods for cleaning up</b>	Avoid discharge into the environment. Take up mechanically and collect in suitable container for disposal. Dispose in a safe manner in accordance with local/national regulations.
<b>Environmental precautions</b>	Prevent from entering into soil, ditches, sewers waterways and/or groundwater.

### 7. Handling and storage

<b>Handling</b>	Keep containers tightly closed. Avoid bodily contact. Use only in area provided with appropriate exhaust ventilation. Avoid dust formation. Avoid breathing dust. Avoid contact with skin and eyes. Make sure that all applicable workplace limits are observed.
<b>Storage</b>	Observe all local and national regulations for storage of water polluting products Keep in a dry place.

### 8. Exposure controls / personal protection

#### Exposure Limits :

Components	ACGIH-TLV Data	Korea OEL	OSHA (PEL) Data
Calcium Borate 13701-64-9	Not determined	Not determined	Not determined

<b>Ventilation requirements</b>	Ventilation must be sufficient to maintain TLV-TWA below 3 mg/m <sup>3</sup> , respirable particles, and 10 mg/m <sup>3</sup> , inhalable particles (ACGIH recommendation for Particles (Insoluble or poorly soluble) Not Otherwise Specified (PNOS)).
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#### Personal protective equipment:

- Respiratory protection	Not normally required. In case of significant or accidental dust emissions, dust mask should be worn.
- Hand protection	Rubber gloves. Leather gloves.
- Eye protection	Tightly sealed goggles

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<b>- Skin and body protection</b>	Body covering clothes and boots
<b>Hygiene measures</b>	Do not eat, smoke or drink where material is handled, processed or stored. Wash hands thoroughly after handling and before eating or smoking. Safety shower and eye bath should be provided.

### 9. Physical and chemical properties

<b>Physical state</b>	Powder
<b>Color</b>	White
<b>Odor</b>	Odorless.
<b>Odor threshold</b>	Not available
<b>pH</b>	10.1 (disp.) (100 g/l) @ 20°C (68°F)
<b>Melting point/range</b>	1540°C (2804°F)
<b>Boiling point/range</b>	Not determined
<b>Flash point</b>	Not applicable.
<b>Evaporation rate (ether=1)</b>	Not determined
<b>Flammability (solid, gas)</b>	Not flammable
<b>Flammable/Explosion limits</b>	Not applicable
<b>Vapor pressure</b>	Not determined
<b>Vapor density</b>	Not determined (AIR = 1)
<b>Density</b>	2.6 - 2.7 g/cm <sup>3</sup> (21.697 - 22.53 lbs/gal) @ 20°C (68°F)
<b>Solubility:</b>	
<b>- Solubility in water</b>	3.4 - 3.7 g/l at 20°C (68°F)
<b>Partition coefficient (n-octanol/water)</b>	Not determined
<b>Auto-ignition temperature</b>	Not self-ignitable
<b>Decomposition temperature</b>	Not determined
<b>Viscosity</b>	Not applicable
<b>Ignition temperature</b>	Not determined
<b>Explosive properties</b>	Product does not present an explosion hazard
<b>Oxidising properties</b>	Not applicable

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### 10. Stability and reactivity

<b>Reactivity</b>	No reactive hazards known/expected.
<b>Stability</b>	Stable under normal conditions
<b>Possibility of hazardous reactions</b>	None known
<b>Conditions to avoid</b>	Moisture/high humidity.
<b>Materials to avoid</b>	Strong acids. Ammonia. Water.
<b>Hazardous decomposition products</b>	Silica fumes, Calcium oxide, Oxides of boron

### 11. Toxicological information

#### Acute toxicity:

- Rabbit oral LD50 > 5000 mg/kg

- Rabbit dermal LD50 > 2000 mg/kg

**Skin corrosion/irritation** Not irritant

**Serious eye damage/ irritation** Not irritant

**Respiratory or skin sensitisation** Not a sensitizer

**Mutagenicity** No information available

**Carcinogenicity** None of the ingredients is listed in NTP/OSHA IARC Group 3: Wollastonite (Ca(SiO<sub>3</sub>))

**Reproductive toxicity** No data available

**Specific Target Organ Toxicity (STOT) - Single exposure** Based on available data, the classification criteria are not met

**Specific Target Organ Toxicity (STOT) - Repeat exposure** Based on available data, the classification criteria are not met

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### 12. Ecological information

<b>Aquatic toxicity</b>	No data available
<b>Biodegradation</b>	No data available
<b>Bioaccumulative potential</b>	No data available
<b>Mobility in soil</b>	No data available
<b>Note:</b>	Does not meet the criteria for PBT or vPvB assessment (inorganic substance)

### 13. Disposal considerations

<b>Waste disposal</b>	Dispose in a safe manner in accordance with local/national regulations.
<b>Disposal of Packaging</b>	Dispose of in a safe manner in accordance with local/national regulations.

### 14. Transportation information

<b>DOT</b>	Not regulated
<b>IMDG</b>	Not regulated
<b>TDG (Canada)</b>	Not regulated
<b>ICAO/IATA</b>	Not regulated

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### 15. Regulatory information

<b>USA</b>	All ingredients are reported in the EPA TSCA Inventory
<b>CERCLA/SARA - 302 Extremely Hazardous Substances</b>	This material contains no hazardous or extremely hazardous substance as defined by CERCLA or SARA Title III, and releases are therefore not reportable.
<b>- SARA 313</b>	This product does not contain a chemical listed at or above de minimis concentrations
<b>- New Jersey Right-to-Know Hazardous Substances list</b>	Listed (Generic group: BORATE COMPOUNDS, Inorganic)
<b>- California-Prop 65</b>	None
<b>Canada</b>	All the components of this substance are listed on or are exempt from the inventory
<b>- China inventory</b>	All ingredients are listed in IECSC
<b>Japan</b>	All the components of this substance are listed on or are exempt from the inventory
<b>Korea</b>	All the ingredients are listed in KECI
<b>Philippines</b>	All ingredients are listed in PICCS
<b>Taiwan</b>	All ingredients are listed in TCSI

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### 16. Other information

This data sheet contains changes from the previous version in section(s)

1, 2, 3, 4, 6, 11, 15

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**End of safety data sheet**